

## SEQUENCE LISTING

<110> SmithKline Beecham Corporation

<120> Hepatitis C Virus Sub-Genomic Replicons

<130> P51335

<140> To be assigned

<141> 2003-04-03

<150> 60/369,685

<151> 2002-04-03

<160> 54

<170> FastSEQ for Windows Version 4.0

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<211> 225

<212> DNA

<213> Artificial Sequence

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<223> The nucleotide sequence encodes the first 75  
contiguous N-terminal amino acids of HCV type 1b,  
strain BB7

<400> 1

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<212> DNA

<213> Artificial Sequence

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<223> The polynucleotide sequence encodes sequences from

## HCV H77 (BB7-F1) Replicons

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<223> The polynucleotide sequence encodes sequences from  
HCV H77(BB7-F1/F2) Replicons

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<223> The polynucleotide sequence encodes sequences from

## HCV J4 (BB7/J4NS5B) Replicons

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ttatccagct ggttcgttgc tggttacagc gggggagaca tatatcacag cctgtctcgt 7680  
gcccgacccc gctggttcat gtggtgccta ctctacttt ctgtaggggt aggcacttat 7740  
ctactcccca accgatgaac gggtagctaa aactccagg ccaataggcc atcctgtttt 7800  
tttccctttt tttttttctt tttttttttt tttttttttt tttttttttt ttctcctttt 7860  
tttttctctt ttttttctt ttctttcctt tgggtggctc atcttagccc tagtcacggc 7920  
tagctgtgaa aggtccgtga gccgcttgac tgcagagagt gctgatactg gcctctctgc 7980  
agatcaagt 7989

<210> 15

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> The sequence encodes DNA fragments amplified by  
using pHCV replb(BB7) as template and the primer  
pairs

<400> 15

cgtctgctgc tcgatgtcct ac

22

<210> 16

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> The sequence encodes DNA fragments amplified by  
using pHCV replb(BB7) as template and the primer  
pairs

<400> 16

ctcccccaac cgatgaacgg gtacgtaaac actccaggcc aatag

45

<210> 17

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> The sequence encodes DNA fragments amplified by  
using pHCV replb(BB7) as template and the primer  
pairs

<400> 17

gcactagtagc ttgatctgca gagaggc

27

<210> 18

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> The sequence encodes DNA fragments amplified by  
using pHCV replb(BB7) as template and the primer  
pairs

<400> 18

ctattggcct ggagtgttta cgtaccggt catcggttg gggag

45

<210> 19

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate pBB7/H77NS5B, the HCV type 1a H77 NS5B  
gene was first amplified by using H77 DNA and  
primers

<400> 19

cctggacagg cgactgatc acc

23

<210> 20

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, two DNA fragments were amplified by using pHCVreplb(BB7) as template and the primer pairs

<400> 20

gaggacttgc tggaagacac tg

22

<210> 21

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, two DNA fragments were amplified by using pHCVreplb(BB7) as template and the primer pairs

<400> 21

caggagtact tgatctgcag agaggc

26

<210> 22

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, two DNA fragments were amplified by using pHCVreplb(BB7) as template and the primer pairs

<400> 22

ctttagccag ctcacagct atccagttgt ctgcgccttc

40

<210> 23

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, two DNA fragments were amplified by using pHCVreplb(BB7) as template and the primer pairs

<400> 23

gaaggcgag acaactggat agctgatgag ctggctaaac

40

<210> 24

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, the neomycin resistance gene was performed using PCR

<400> 24

tcaagaccga cctgtccggt gccc

24

<210> 25

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, the neomycin resistance gene was performed using PCR

<400> 25

cttgagcctg gcgaacagtt cggc

24

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>



<223> To generate this sequence, the neomycin resistance gene was performed using PCR

<400> 26

accacagtcc atgcatcac

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> To generate this sequence, the neomycin resistance gene was performed using PCR

<400> 27

tccaccaccc tgttgctgta

20

<210> 28

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> The total cellular was isolated using RNeasy Mini Kit (Qiagen)

<400> 28

ccggctacct gccattc

18

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> The total cellular was isolated using RNeasy Mini Kit (Qiagen)

<400> 29

ccagatcatc cgatcgacaa g

21

<210> 30

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> The total cellular was isolated using RNeasy  
Mini Kit (Qiagen)

<400> 30

acatcgcacg gagcgagcac gtac

24

<210> 31

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric  
replicon constructs. Primers of the invention was  
derived from plasmids.

<400> 31

catccagatg tacaccaatg tggac

25

<210> 32

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric  
replicon constructs. Primers of the invention was  
derived from plasmids.

<400> 32

catcgcccga attcttcaca gaattg

26

<210> 33

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 33

caattctgtg aagaattcgg gcgatg

26

<210> 34

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 34

gtaacaccaa ttgacactac catc

24

<210> 35

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 35

gatggtagtg tctattgggtg ttac

24

<210> 36

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 36  
gcactagtagtac ttgatctgca gagaggccag tatcagcact ctctgcagtc aagcgg 56

<210> 37  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> DNA primer sequences used in making the chimeric  
replicon constructs. Primers of the invention was  
derived from plasmids.

<400> 37  
ctttagccag ctcatcagct atccagttgt ctgcgccttc 40

<210> 38  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> DNA primer sequences used in making the chimeric  
replicon constructs. Primers of the invention was  
derived from plasmids.

<400> 38  
gaaggcgcag acaactggat agctgatgag ctggcctaac 40

<210> 39  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> DNA primer sequences used in making the chimeric  
replicon constructs. Primers of the invention was  
derived from plasmids.

<400> 39  
gagatggagc ggacagctgg atagccgagg agctggccat agaag 45

<210> 40

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 40

cttctatggc cagctcctcg gctatccagc tgtccgctcc atctc

45

<210> 41

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 41

cgtctgctgc tcgatgtcct ac

22

<210> 42

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 42

ctcccccaac cgatgaacgg gtacgtaaac actccaggcc aatag

45

<210> 43

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 43

cctggacagg cgactgatc acc

23

<210> 44

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 44

gaggacttgc tggaagacac tg

22

<210> 45

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 45

caggagtact tgatctgcag agaggc

26

<210> 46

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 46

gcactagtagtac ttgatctgca gagaggc

27

<210> 47

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 47

ctattggcct ggagtgttta cgtacccgtt catcggttg gggag

45

<210> 48

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 48

tcaagaccga cctgtccgtt gccc

24

<210> 49

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 49

cttgagcctg gcgaacagtt cggc

24

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 50

accacagtcc atgccatcac

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 51

tccaccaccc tgttgctgta

20

<210> 52

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 52

ccggctacct gcccatc

18

<210> 53

<211> 21

<212> DNA

<213> Artificial Sequence



<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 53

ccagatcatc cgatcgacaa g

21

<210> 54

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA primer sequences used in making the chimeric replicon constructs. Primers of the invention was derived from plasmids.

<400> 54

acatcgcatc gagcgagcac gtac

24